

Amendments to the Claims

This list of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Claim 1 (currently amended): A process for the transmission of analog- and digital-coded information, characterized in that serial transmission takes place via one channel, both the analog and the digital coding taking place with ~~the~~ a same synchronous alternating current of one frequency and phase position, wherein the code elements of the digital code are formed by the number, length, time of periods or half-periods and are transmitted as real code words ~~(FIG. 22, CW)~~ or virtual code words ~~(FIG. 24, V1, V2, V3, . . .)~~ and the code elements of the analog code ~~(FIG. 22, P1, P1,)~~ ~~[Translator's Note: The German text is ungrammatical]~~ in that the pulse amplitude modulated (PAM) ~~PAM~~ samples are transmitted on the amplitudes of the periods or half-periods ~~(FIG. 21)~~ of said alternating current and inserted in series into the code alternating current, so that a coding alternating current is formed in uninterrupted sequence, wherein analog words and real code words ~~(FIG. 16, f, fl)~~ are also inserted between the virtual code words as needed ~~(FIG. 27, A)~~.

Claim 2 (currently amended): The process of claim 1, further ~~A process for the encoding of digitized information,~~ characterized in that the digitization takes place through the length, number, time, or phase position

of periods or half-periods of an alternating current of the same frequency and phase position, wherein the same size is always assigned to ~~the~~ code words and, at the end, at the beginning, or between ~~the~~ code words, analog periods or half-periods of said alternating current of the same frequency and phase position are provided ~~(FIG. 22)~~.

Claim 3 (currently amended): A process for the encoding of digitized information, characterized in that virtual code words are provided ~~(FIG. 23, I, II, III, IV, I, . . .)~~, which are formed with an alternating current code made up of the number, time, length, or phase, is transmitted, wherein one channel is formed from each parallel code element, ~~(FIG. 23, 1-8)~~, the transmitted code words of the various information are transmitted in series in this process ~~(FIG. 23, 1p, 1p, 1p, 1p, . . .)~~, and analog code words are formed in this process between the virtual code words from the pulse amplitude modulated (PAM) PAM samples coded with the periods or half-periods ~~(FIG. 21b)~~ of said alternating current, namely, in a number that corresponds to that of the virtual code words (e.g., virtual code word 8 periods=8 PAM samples, ~~FIG. 21b~~).

Claim 4 (currently amended): The process of claim 1, further ~~A process for the transmission of analog information of several channels,~~ characterized in that the pulse amplitude modulated (PAM) PAM samples are coded with the periods or half-periods of an alternating current and, namely, with the amplitudes of an alternating current of the same frequency and phase position, sampled in a time

multiplexed manner, and transmitted in series in an uninterrupted sequence.

Claim 5 (currently amended): The process according to patent claims 1 ~~to 4~~, 2, 3 or 4, further characterized in that the transmission of two coding alternating currents takes place on the basis of QAM.

Claim 6 (currently amended): The process according to patent claim 1, further characterized in that virtual code words are provided ~~(FIG. 13, 1p-12p, . . .)~~, which are formed with an alternating current code made up of the periods or half-periods, each of the same number, which are transmitted, wherein one channel is formed from each parallel code element ~~(FIG. 13, 1-12)~~, in which the real code words of the various kinds of information are coded ~~(FIG. 13, I/1p-II/1p . . . IV/1p)~~, whereby the transmission of the virtual code words takes place, with it being possible to insert analog periods of said alternating current between the virtual code words in a number corresponding to the virtual code words.

Claim 7 (currently amended): The process according to patent claim 1, further characterized in that, between digital code words consisting of alternating current, a number of PAM-coded periods or half-periods of said alternating current that corresponds to the number of digital code words is introduced. ~~(FIG. 22, CW/3 periods-PAM P1, P2, P3=3 periods)~~.

Claim 8 (currently amended): The process according to

patent claims 1 ~~to~~ 2, 3 or 4, further characterized in that the virtual code words to be transmitted are divided into two or more code words, the sum of their code elements remaining constant ~~(FIG. 25)~~, if need be with an exchange of the divided code words of various virtual code words.